Overview

Where more than one pair of speakers is required in a zone, Tango Amplifiers provide the extra power needed to drive up to 4 additional speaker pairs (FIG. 1).
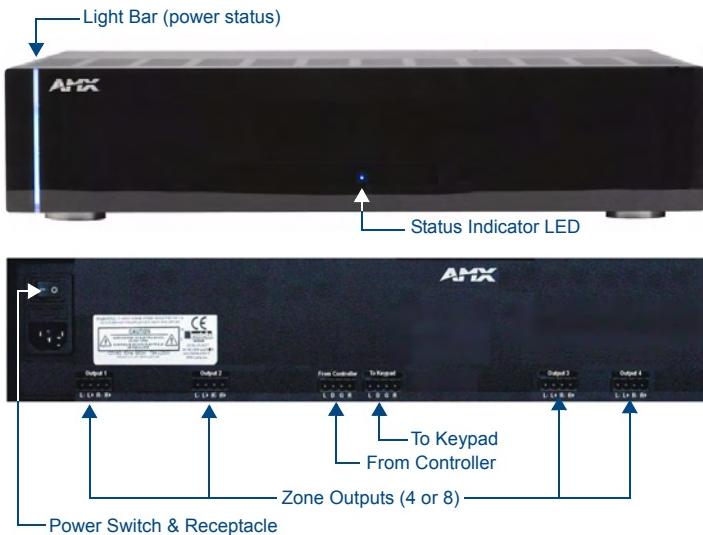

FIG. 1 Tango Amplifiers (DAS-TAMP4-SIG shown)

Tango Amplifiers provide extra output power to multiple pairs of speakers driven from one zone.

- The **DAS-TAMP4-SIG** Tango 4-Channel Amplifier (FG1103-21) is a 4-channel amp that supports an additional 2 speaker pairs per unit.
- The **DAS-TAMP8-SIG** Tango 8-Channel Amplifier (FG1103-22) is an 8-channel amp that supports an additional 4 speakers pairs per unit.

Product Specifications

Tango Amplifiers - Product Specifications	
Models Available:	• **DAS-TAMP4-SIG** (FG1103-21) 4-Channel Amplifier (120 V) • **DAS-TAMP8-SIG** (FG1103-22) 8-Channel Amplifier (120 V)
Configuration:	• Modular Design - configurable in single pairs up to 4 stereo pairs (8 channels). • Stackable up to 3 Tango Amplifiers or 12 stereo pairs (24 channels)
Stereo Output:	• Dual mono amplifier stage design • 60 watts per channel • THD+N at 1 Khz continuous .006%@ 8 Ohms • Each Tango amplifier is capable of providing 480 watts @ 8 Ohms
Control Options:	• Metreau (DAS-MET-6SRC, DAS-MET-NUM) keypads • C-Series speakers using SWT
Power:	• 750W max (Average usage = 250W). • High current Torroidal power supply
Front Panel Components:	
Light Bar	• Blue light bar indicates power status.
Status LED	• Blue LED lights when active
Rear Panel Components:	
Power Switch & Receptacle	The master power switch will remain in the ON position normally.
Output 1-4:	SWT connectors provide direct connection to speakers.

Tango Amplifiers - Product Specifications (Cont.)	
From Controller:	SWT input port (connects to an Tango Audio Controller)
To Keypad:	SWT output port (connects to Matrix keypad or interface)
Dimensions (HWD):	Including feet and rear connectors: • 3 1/16" x 17" x 13 1/2" • 7.68cm x 43.18cm x 33.52cm
Weight:	25.75 lbs (11.68 kg)
Included Accessories:	• Power cord
Other AMX Equipment:	• Rack-Mount Installation Kit (FG1101-60)

Rack-Mounting

Tango units occupy two rack spaces in a standard 19" equipment rack. Rack mounting brackets are supplied with the optional Rack-Mount Installation Kit (FG1101-60).

Note: Exercise extreme care when lifting or moving Tango units within the rack to avoid injury. It is recommended that you seek the assistance of another person when rack mounting Tango units.

1. Attach the rack mounting brackets to each side of the Tango unit using the four screws (10-32 Panhead Phillips - supplied with the Tango unit) for each bracket.

   Note: To prevent injury the Tango unit must be securely attached to the rack in accordance with the installation instructions. ALWAYS use the special rack mount brackets supplied and high quality fixing screws to ensure the Tango unit is installed in the rack correctly.

2. Place the Tango unit in the equipment rack and hold steady.
3. Secure the Tango unit in the rack using the mounting holes.

   Note: DO NOT stand other units directly on top of the Tango unit when it is rack mounted, as this will place excessive strain on the mounting brackets.

Ventilation

To ensure that the rack enclosure is adequately ventilated, there must be a minimum of 3" all around the Tango unit.

Sufficient airflow must be achieved (by convection or forced-air cooling) to satisfy the ventilation requirements of all the items of equipment installed within the rack.

Speaker Wire Technology (SWT)

Speaker Wire Technology (SWT) allows both data and audio signals to travel over the same four conductor wire. This remarkable technology removes the need for control wire since the control and audio signals are shared on the same wire. The reliability and simplicity of this system has been proven for years. AMX Distributed Audio is the only company that offers a "retrofit solution", one which allows the replacement of volume controls with AMX Distributed Audio keypads and Controllers, giving full control over the sources. Additionally, the versatility of SWT also allows AMX Distributed Audio products to be connected where the control wire has been run separately from the speaker cable.

Cabling Instructions

CAUTION: Be sure to check for any wiring restrictions required by the electrical code in your area.

This installation uses low voltage cabling similar to telephone and alarm wiring, and as such does not commonly have very many restrictions on their installation. However rules may vary in different regions.

Cable Type

The Tango Amplifier is cabled using standard 4-conductor speaker cable originating at the Tango Controller, passing through the Keypad, and terminating at the speaker location. AMX recommends using a bundled 4-conductor 16-gauge stranded copper wire in a single continuous run.

Connecting Zone Outputs (Speakers)

Speaker Connectors

Speaker connections use standard speaker outputs (L+, L-, R-, R+) as shown in FIG. 2.

L+ L- R- R+
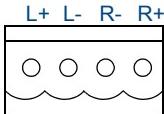
FIG. 2 Speaker connectors

Connecting Speakers

Each speaker has a Red (positive) terminal and a Black (negative) terminal. Connect the appropriate wire from the keypad to Red and Black terminals on the Left and Right speakers, as with any standard speaker installation.

Connecting To a Tango Audio Controller

Connect the Tango Amplifier to the Tango Audio Controller via the 4-pin connector labelled "**From Controller**" on the rear panel of the Amplifier.

Connecting SWT Keypads

Connect SWT Keypads (DAS-MET-6SRC or K-Series) to the Tango Amplifier via the SWT connector labelled "To Keypad" on the rear panel of the Amplifier.

Note: When stripping cable for use with SWT connector, only strip away about ¼" (6mm) of the insulation from each wire. The complete assembly should not have more than 1/32" (1mm) of bare wire exposed from the bottom of the connector.

Wiring Diagram

The wiring diagram below illustrates the connections from a Tango Audio Controller, and to SWT Speakers and Metreau (SWT) Keypad.

Additional Documentation

Additional documentation for Distributed Audio products is available online at www.amx.com:

- For details on Tango Audio Controllers, refer to the *Tango Audio Controllers Operation/Reference Guide and Installation Guide*.
- For details on Tango Zone Expanders, refer to the *Tango Zone Expanders Operation/Reference Guide and Installation Guides*.
- For details on Metreau Keypads, refer to the *Metreau Keypads Operation/ Reference Guide and Installation Guides*.
- For details on MIO R-4 AUDIO remote controllers, refer to the *MIO R-1 AUDIO Installation Guide*.
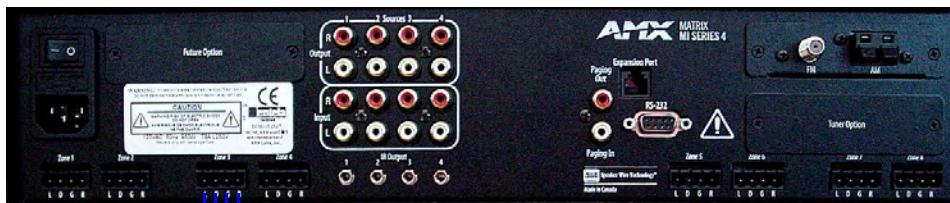
Tango Audio Controller
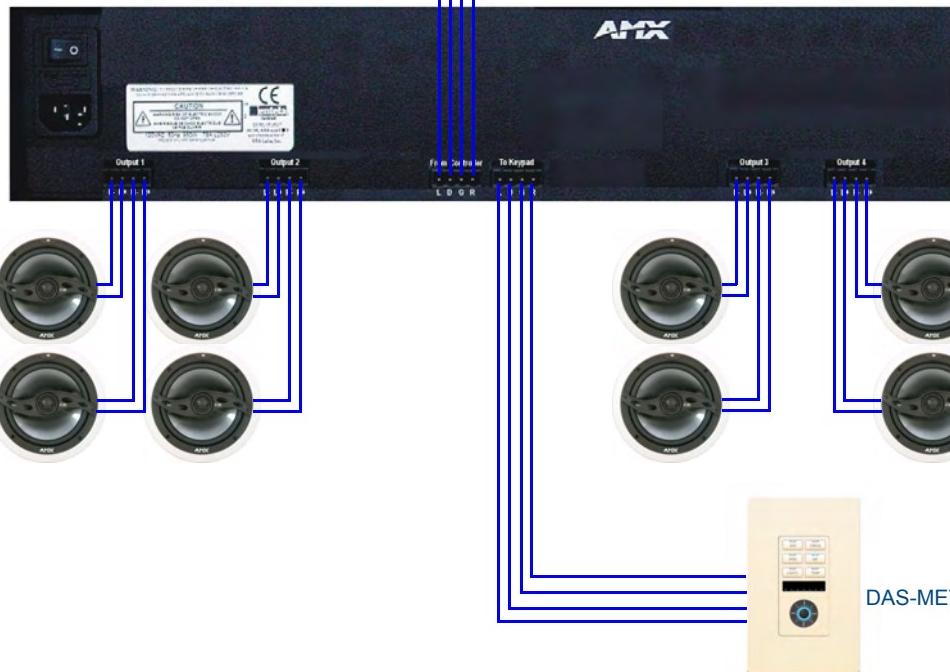
Tango Amplifier

DAS-MET-6SRC

93-1103-21   REV: A

AMX